

STN Columbus

* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
 NEWS 2 "Ask CAS" for self-help around the clock
 NEWS 3 SEP 01 New pricing for the Save Answers for SciFinder Wizard within
 STN Express with Discover!
 NEWS 4 OCT 28 KOREAPAT now available on STN
 NEWS 5 NOV 30 PHAR reloaded with additional data
 NEWS 6 DEC 01 LISA now available on STN
 NEWS 7 DEC 09 12 databases to be removed from STN on December 31, 2004
 NEWS 8 DEC 15 MEDLINE update schedule for December 2004
 NEWS 9 DEC 17 ELCOM reloaded; updating to resume; current-awareness
 alerts (SDIs) affected
 NEWS 10 DEC 17 COMPUAB reloaded; updating to resume; current-awareness
 alerts (SDIs) affected
 NEWS 11 DEC 17 SOLIDSTATE reloaded; updating to resume; current-awareness
 alerts (SDIs) affected
 NEWS 12 DEC 17 CERAB reloaded; updating to resume; current-awareness
 alerts (SDIs) affected
 NEWS 13 DEC 17 THREE NEW FIELDS ADDED TO IFIPAT/IFIUDB/IFICDB
 NEWS 14 DEC 30 EPFULL: New patent full text database to be available on STN
 NEWS 15 DEC 30 CAPLUS - PATENT COVERAGE EXPANDED
 NEWS 16 JAN 03 No connect-hour charges in EPFULL during January and
 February 2005
 NEWS 17 JAN 26 CA/CAPLUS - Expanded patent coverage to include the Russian
 Agency for Patents and Trademarks (ROSPATENT)
 NEWS 18 FEB 10 STN Patent Forums to be held in March 2005
 NEWS 19 FEB 16 STN User Update to be held in conjunction with the 229th ACS
 National Meeting on March 13, 2005

 NEWS EXPRESS JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT
 MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
 AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005

 NEWS HOURS STN Operating Hours Plus Help Desk Availability
 NEWS INTER General Internet Information
 NEWS LOGIN Welcome Banner and News Items
 NEWS PHONE Direct Dial and Telecommunication Network Access to STN
 NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
 specific topic.

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 of commercial gateways or other similar uses is prohibited and may
 result in loss of user privileges and other penalties.

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 15:30:39 ON 22 FEB 2005

=> fil reg		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 15:30:52 ON 22 FEB 2005

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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 21 FEB 2005 HIGHEST RN 835594-12-2
DICTIONARY FILE UPDATES: 21 FEB 2005 HIGHEST RN 835594-12-2

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

L1 SCREEN CREATED

=>

L2 STRUCTURE UPLOADED

=>

L3 QUE L2 AND L1

=> s l3 sam sss

STRUCTURE TOO LARGE - SEARCH ENDED

A structure in your query is too large. You may delete
attributes or atoms to reduce the size of the structure
and try again.

=> log h

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.86	1.07

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 15:31:56 ON 22 FEB 2005

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *

SESSION RESUMED IN FILE 'REGISTRY' AT 15:38:04 ON 22 FEB 2005

FILE 'REGISTRY' ENTERED AT 15:38:04 ON 22 FEB 2005

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.86	1.07

=>

L4 SCREEN CREATED

=>

L5 STRUCTURE UPLOADED

=>

L6 QUE L5 AND L4

STN Columbus

=> s l6 sam sss

STRUCTURE TOO LARGE - SEARCH ENDED

A structure in your query is too large. You may delete attributes or atoms to reduce the size of the structure and try again.

=> log h

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

1.72

1.93

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 15:39:05 ON 22 FEB 2005

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *

SESSION RESUMED IN FILE 'REGISTRY' AT 15:48:37 ON 22 FEB 2005

FILE 'REGISTRY' ENTERED AT 15:48:37 ON 22 FEB 2005

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COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

1.72

1.93

=>

L7 SCREEN CREATED

=>

L8 SCREEN CREATED

=>

L9 STRUCTURE UPLOADED

=>

L10 QUE L9 AND L7 NOT L8

=> s l10 sam sss

SAMPLE SEARCH INITIATED 15:49:15 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 9464 TO ITERATE

10.6% PROCESSED 1000 ITERATIONS

3 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 183450 TO 195110

PROJECTED ANSWERS: 248 TO 886

L11 3 SEA SSS SAM L9 AND L7 NOT L8

=> scan

ENTER TERM OR (END):end

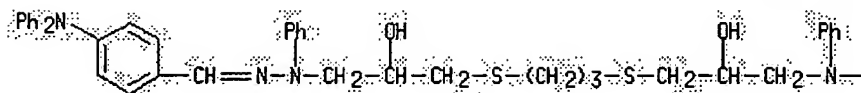
=> d scan

L11 3 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN

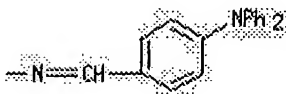
IN Benzaldehyde, 4-(diphenylamino)-, [1,3-propanediylbis[thio(2-hydroxy-3,1-propanediyl)]]bis(phenylhydrazone) (9CI)

MF C59 H58 N6 O2 S2

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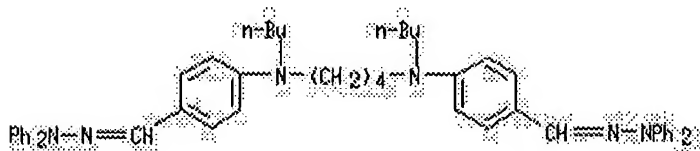
PAGE 1-B



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

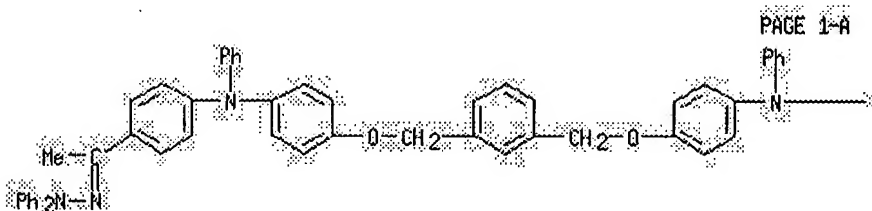
L11 3 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Benzaldehyde, 4,4'-[1,4-butanediylbis(butylimino)]bis-,
 bis(diphenylhydrazone) (9CI)
 MF C50 H56 N6



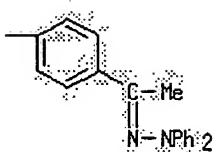
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L11 3 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Ethanone, 1,1'-[1,3-phenylenebis[methyleneoxy-4,1-phenylene(phenylimino)-
 4,1-phenylene]]bis-, bis(diphenylhydrazone) (9CI)
 MF C72 H60 N6 O2



PAGE 1-A



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> fil stnguide

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

5.16

5.37

FILE 'STNGUIDE' ENTERED AT 15:53:21 ON 22 FEB 2005

USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT

COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY, JAPAN SCIENCE

AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.

LAST RELOADED: Feb 18, 2005 (20050218/UP).

=> log h

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.06

5.43

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 15:53:36 ON 22 FEB 2005

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *

SESSION RESUMED IN FILE 'STNGUIDE' AT 16:00:06 ON 22 FEB 2005

FILE 'STNGUIDE' ENTERED AT 16:00:06 ON 22 FEB 2005

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AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.06

5.43

=>

THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE

Some commands only work in certain files. For example, the EXPAND

command can only be used to look at the index in a file which has an

index. Enter \"HELP COMMANDS\" at an arrow prompt (=>) for a list of

commands which can be used in this file.

=>

THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE

Some commands only work in certain files. For example, the EXPAND

command can only be used to look at the index in a file which has an

index. Enter \"HELP COMMANDS\" at an arrow prompt (=>) for a list of

commands which can be used in this file.

=>

THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE

STN Columbus

Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter \ "HELP COMMANDS\" at an arrow prompt (=>) for a list of commands which can be used in this file.

=>

COMBINATION OF STRUCTURE AND TEXT TERMS NOT VALID

The query entered contains both search terms created by structure-building or screen commands and text search terms. L#s created via the STRUCTURE or SCREEN commands must be searched in the structures files separately from text terms or profiles. The L# answer sets from structure searches can be used in crossover searches and can be combined with text terms.

=> fil reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.12	5.49

FILE 'REGISTRY' ENTERED AT 16:00:54 ON 22 FEB 2005
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STRUCTURE FILE UPDATES: 21 FEB 2005 HIGHEST RN 835594-12-2
DICTIONARY FILE UPDATES: 21 FEB 2005 HIGHEST RN 835594-12-2

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

L12 SCREEN CREATED

=>

L13 SCREEN CREATED

=>

L14 STRUCTURE UPLOADED

=>

L15 QUE L14 AND L12 NOT L13

=> s sam sss l15

SAMPLE SEARCH INITIATED 16:01:25 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 9464 TO ITERATE

10.6% PROCESSED 1000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

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FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**
 PROJECTED ITERATIONS: 183450 TO 195110
 PROJECTED ANSWERS: 0 TO 0

L16 0 SEA SSS SAM L14 AND L12 NOT L13

=> log h

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	1.29	6.78

SESSION WILL BE HELD FOR 60 MINUTES
 STN INTERNATIONAL SESSION SUSPENDED AT 16:02:47 ON 22 FEB 2005

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
 SESSION RESUMED IN FILE 'REGISTRY' AT 16:05:54 ON 22 FEB 2005
 FILE 'REGISTRY' ENTERED AT 16:05:54 ON 22 FEB 2005
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	1.29	6.78

=>

L17 SCREEN CREATED

=>

L18 SCREEN CREATED

=>

L19 STRUCTURE UPLOADED

=>

L20 QUE L19 AND L17 NOT L18

=> s sam sss l20
 SAMPLE SEARCH INITIATED 16:06:45 FILE 'REGISTRY'
 SAMPLE SCREEN SEARCH COMPLETED - 9464 TO ITERATE

10.6% PROCESSED 1000 ITERATIONS 0 ANSWERS
 INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
 SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**
 PROJECTED ITERATIONS: 183450 TO 195110
 PROJECTED ANSWERS: 0 TO 0

L21 0 SEA SSS SAM L19 AND L17 NOT L18

=> fil stnguide

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.15	7.64

FILE 'STNGUIDE' ENTERED AT 16:07:22 ON 22 FEB 2005
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 AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.

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LAST RELOADED: Feb 18, 2005 (20050218/UP).

=> fil reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.30

7.94

FILE 'REGISTRY' ENTERED AT 16:10:33 ON 22 FEB 2005

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STRUCTURE FILE UPDATES: 21 FEB 2005 HIGHEST RN 835594-12-2

DICTIONARY FILE UPDATES: 21 FEB 2005 HIGHEST RN 835594-12-2

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> s l20 sss full

FULL SEARCH INITIATED 16:11:46 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 190697 TO ITERATE

100.0% PROCESSED 190697 ITERATIONS

34 ANSWERS

SEARCH TIME: 00.00.04

L22 34 SEA SSS FUL L19 AND L17 NOT L18

=> save l22 a749147/a

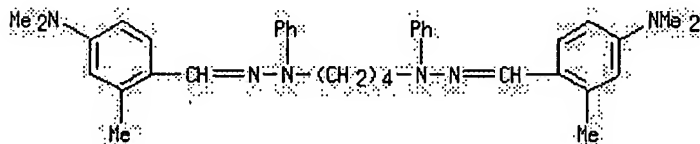
ANSWER SET L22 HAS BEEN SAVED AS 'A749147/A'

=> d scan

L22 34 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN

IN Benzaldehyde, 4-(dimethylamino)-, 1,4-butanediylbis(phenylhydrazone) (9CI)

MF C36 H44 N6

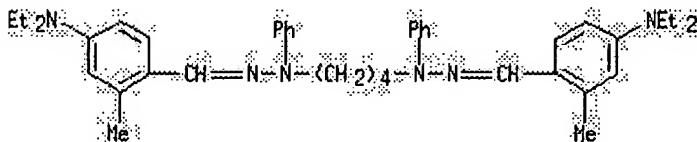


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

STN Columbus

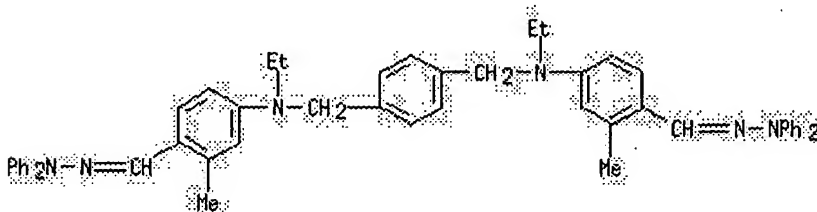
L22 34 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Benzaldehyde, 4-(diethylamino)-2-methyl-, 1,4-
 butanediylbis(phenylhydrazone) (9CI)
 MF C40 H52 N6



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

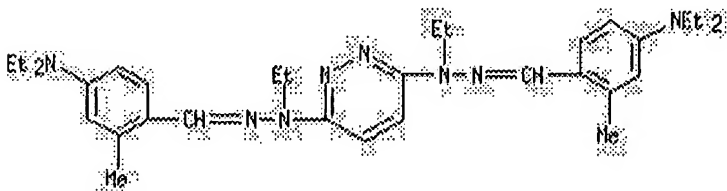
L22 34 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Benzaldehyde, 4,4'-[1,4-phenylenebis[methylene(ethylimino)]]bis[2-methyl-,
 bis(diphenylhydrazone) (9CI)
 MF C52 H52 N6



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L22 34 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Benzaldehyde, 4-(diethylamino)-2-methyl-, 3,6-
 pyridazinediylbis(ethylhydrazone) (9CI)
 MF C32 H46 N8

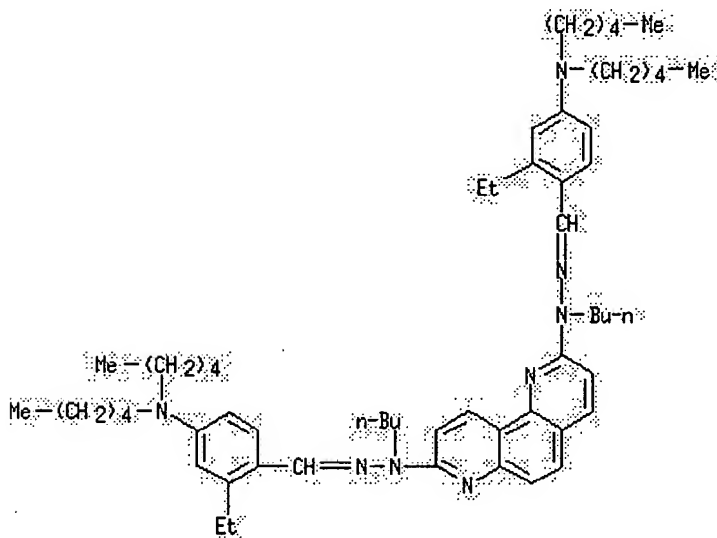


STN Columbus

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

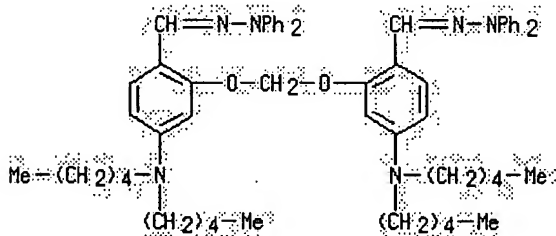
L22 34 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Benzaldehyde, 4-(dipentylamino)-2-ethyl-, 1,7-phenanthroline-2,8-diylbis(butylhydrazone) (9CI)
 MF C58 H86 N8



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L22 34 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Benzaldehyde, 2,2'-[methylenebis(oxy)]bis[4-(dipentylamino)-, bis(diphenylhydrazone) (9CI)
 MF C59 H74 N6 O2

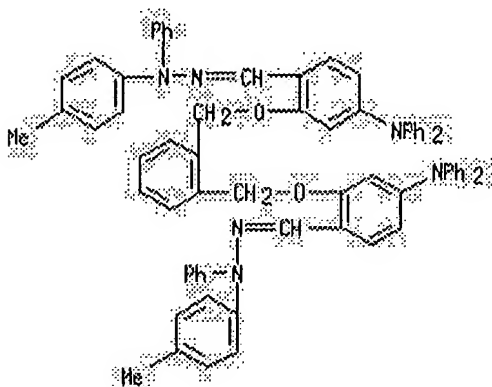


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

STN Columbus

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

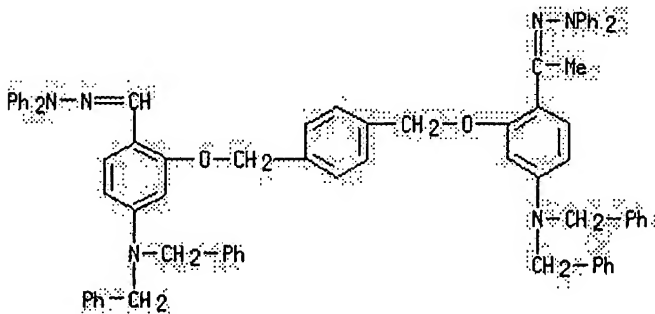
L22 34 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Benzaldehyde, 2,2'-[1,2-phenylenebis(methyleneoxy)]bis[4-(diphenylamino)-,
 bis[(4-methylphenyl)phenylhydrazone] (9CI)
 MF C72 H60 N6 O2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L22 34 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Benzaldehyde, 4-[bis(phenylmethyl)amino]-2-[4-[[5-[bis(phenylmethyl)amino]-2-[1-(diphenylhydrazono)ethyl]phenoxy]methyl]phenyl]methoxy]-, diphenylhydrazone (9CI)
 MF C75 H66 N6 O2



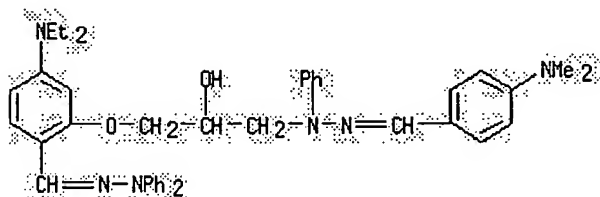
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L22 34 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN

STN Columbus

IN Benzaldehyde, 4-(diethylamino)-2-[3-[[[4-(dimethylamino)phenyl]methylene]p
henylhydrazino]-2-hydroxypropoxy]-, diphenylhydrazone (9CI)
MF C41 H46 N6 O2



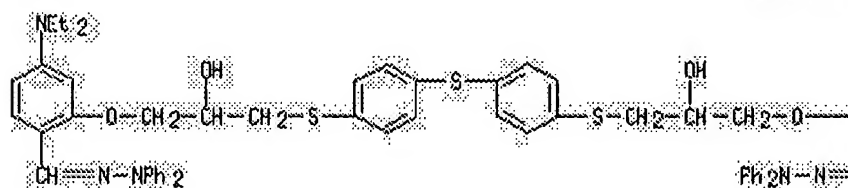
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

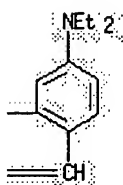
L22 34 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN

IN Benzaldehyde, 2,2'-[thiobis[4,1-phenylenethio(2-hydroxy-3,1-
propanediyl)oxy]]bis[4-(diethylamino)-, bis(diphenylhydrazone) (9CI)
MF C64 H68 N6 O4 S3

PAGE 1-A



PAGE 1-B



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1)end

=> fil ca

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

164.34

172.28

FILE 'CA' ENTERED AT 16:15:23 ON 22 FEB 2005

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FILE COVERS 1907 - 17 Feb 2005 VOL 142 ISS 9
FILE LAST UPDATED: 17 Feb 2005 (20050217/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d his

(FILE 'HOME' ENTERED AT 15:30:39 ON 22 FEB 2005)

FILE 'REGISTRY' ENTERED AT 15:30:52 ON 22 FEB 2005

L1 SCREEN 1996
L2 STRUCTURE UPLOADED
L3 QUE L2 AND L1
L4 SCREEN 1996
L5 STRUCTURE UPLOADED
L6 QUE L5 AND L4
L7 SCREEN 1996
L8 SCREEN 2127
L9 STRUCTURE UPLOADED
L10 QUE L9 AND L7 NOT L8
L11 3 S L10 SAM SSS

FILE 'STNGUIDE' ENTERED AT 15:53:21 ON 22 FEB 2005

FILE 'REGISTRY' ENTERED AT 16:00:54 ON 22 FEB 2005

L12 SCREEN 1996
L13 SCREEN 2127
L14 STRUCTURE UPLOADED
L15 QUE L14 AND L12 NOT L13
L16 0 S SAM SSS L15
L17 SCREEN 1996
L18 SCREEN 2127
L19 STRUCTURE UPLOADED
L20 QUE L19 AND L17 NOT L18
L21 0 S SAM SSS L20

FILE 'STNGUIDE' ENTERED AT 16:07:22 ON 22 FEB 2005

FILE 'REGISTRY' ENTERED AT 16:10:33 ON 22 FEB 2005

L22 34 S L20 SSS FULL
SAVE L22 A749147/A

FILE 'CA' ENTERED AT 16:15:23 ON 22 FEB 2005

=> s 122

STN Columbus

L23 12 L22

=> e us-20040106054/pn

E1	1	US2004106052/PN
E2	2	US2004106053/PN
E3	1 -->	US2004106054/PN
E4	2	US2004106055/PN
E5	1	US2004106056/PN
E6	1	US2004106057/PN
E7	1	US2004106058/PN
E8	1	US2004106059/PN
E9	2	US2004106060/PN
E10	1	US2004106061/PN
E11	1	US2004106062/PN
E12	1	US2004106063/PN

=> s e3

L24 1 US2004106054/PN

=> e us-20040152002/pn

E1	1	US2004152000/PN
E2	1	US2004152001/PN
E3	1 -->	US2004152002/PN
E4	1	US2004152003/PN
E5	1	US2004152004/PN
E6	1	US2004152005/PN
E7	1	US2004152006/PN
E8	2	US2004152007/PN
E9	1	US2004152008/PN
E10	1	US2004152009/PN
E11	1	US2004152010/PN
E12	1	US2004152011/PN

=> s e3

L25 1 US2004152002/PN

=> s l23 not l24 not l25

L26 10 L23 NOT L24 NOT L25

=> d bib ab hitstr 1-10; fil stnguide

L26 ANSWER 1 OF 10 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 141:233149 CA

TI Organophotoreceptor with charge transport material having two hydrazone groups

IN Tokarski, Zbigniew; Montrimas, Edmundas; Paulauskaite, Ingrida; Jubran, Nusrallab; Gaidelis, Valentas; Getautis, Vytautas

PA Samsung Electronics Co., Ltd., S. Korea

SO Eur. Pat. Appl., 26 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	EP 1452924	A1	20040901	EP 2004-251132	20040227
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK, HR				
	US 2004170910	A1	20040902	US 2003-749171	20031230
	JP 2004264855	A2	20040924	JP 2004-56692	20040301
PRAI	US 2003-451308P	P	20030228		

STN Columbus

US 2003-749171 A 20031230

OS MARPAT 141:233149

AB The present invention provides an organo photoreceptor comprising an elec. conductive substrate and a photoconductive element on the elec. conductive substrate, the photoconductive element comprising: (a) a charge transport material having the formula I (R1-8 = alkyl group, alkaryl group, aryl group, heterocyclic group; X, X' = arom. groups; Z = a divalent linking group (CH2)m; m = 1-30; inclusive, and one or more of the methylene groups may be replaced by O, S, C=O, O=S=O, heterocyclic group, arom. group, urethane, urea, ester group, NR9 group, CHR10 group, CR11R12; R9,10 = H, hydroxyl, thiol, alkoxy group, alkyl group, aryl group; R11,12 = H, hydroxyl, thiol, alkoxy group, alkyl group, aryl group, or a part of a cyclic ring); and (b) a charge generating compd. Corresponding electrophotog. apparatuses and imaging methods are described.

IT 748789-21-1P 748789-22-2P 748789-23-3P

748789-24-4P

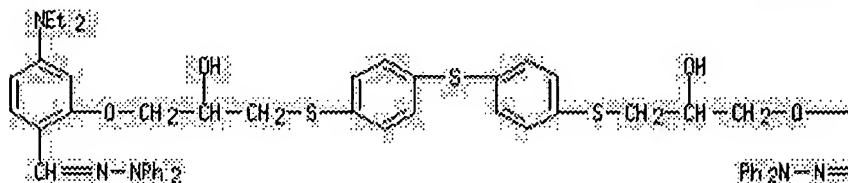
RL: PRP (Properties); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(organo photoreceptor with charge transport material having two hydrazone groups)

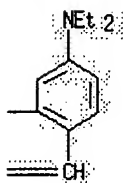
RN 748789-21-1 CA

CN Benzaldehyde, 2,2'-[thiobis[4,1-phenylenethio(2-hydroxy-3,1-propanediyl)oxy]]bis[4-(diethylamino)-, bis(diphenylhydrazone) (9CI) (CA INDEX NAME)

PAGE 1-A

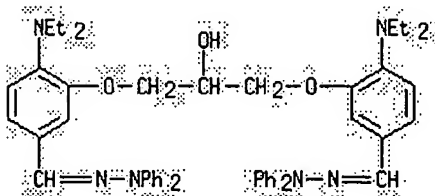


PAGE 1-B



RN 748789-22-2 CA

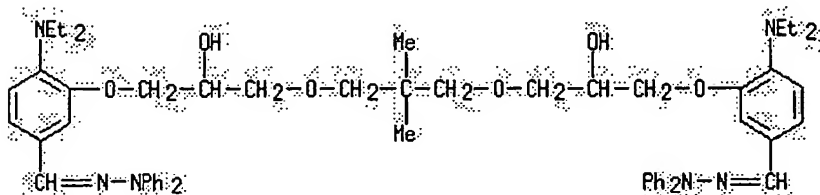
CN Benzaldehyde, 3,3'-[(2-hydroxy-1,3-propanediyl)bis(oxy)]bis[4-(diethylamino)-, bis(diphenylhydrazone) (9CI) (CA INDEX NAME)



RN 748789-23-3 CA

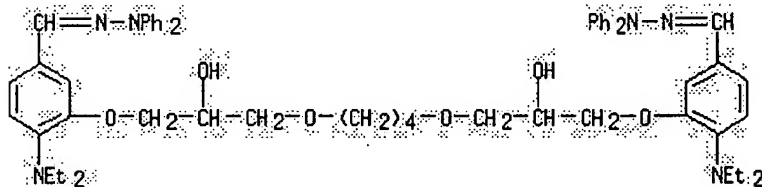
STN Columbus

CN Benzaldehyde, 3,3'-[(2,2-dimethyl-1,3-propanediyl)bis[oxy(2-hydroxy-3,1-propanediyl)oxy]]bis[4-(diethylamino)-, bis(diphenylhydrazone) (9CI) (CA INDEX NAME)



RN 748789-24-4 CA

CN Benzaldehyde, 3,3'-[1,4-butanediylbis[oxy(2-hydroxy-3,1-propanediyl)oxy]]bis[4-(diethylamino)-, bis(diphenylhydrazone) (9CI) (CA INDEX NAME)



L26 ANSWER 2 OF 10 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 129:195773 CA

TI Electrophotographic photoreceptor using novel hydrazone-type charge-transporting agent

IN Kurota, Masami

PA Fuji Electric Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10207094	A2	19980807	JP 1997-6160	19970117
JP 1997-6160		19970117		

OS MARPAT 129:195773

AB The title photoreceptor comprises an elec. conductive substrate coated with a photosensitive layer contg. ≥1 hydrazone deriv. I or II [R1-15 = H, halo, (substituted) alkyl, aryl] as a charge-transporting agent. The photoreceptor shows high photosensitivity and cyclicability.

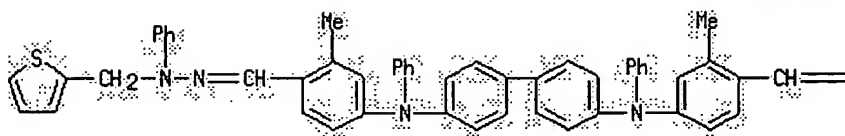
IT 211635-06-2

RL: TEM (Technical or engineered material use); USES (Uses)
(electrophotog. photoconductor using hydrazone charge-transporting agent)

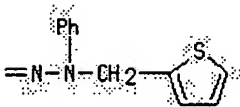
RN 211635-06-2 CA

CN Benzaldehyde, 4,4'-[[1,1'-biphenyl]-4,4'-diylbis(phenylimino)]bis[2-methyl-, bis[phenyl(2-thienylmethyl)hydrazone] (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



L26 ANSWER 3 OF 10 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 118:136179 CA
 TI Electrophotographic photoreceptor
 IN Murayama, Tetsuo; Ono, Hitoshi; Saita, Atsuo; Watabe, Sumiko
 PA Mitsubishi Kasei Corp., Japan
 SO Eur. Pat. Appl., 58 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 511664	A1	19921104	EP 1992-107347	19920429
	EP 511664	B1	19961106		
	R: DE, FR, GB, IT				
	JP 04328753	A2	19921117	JP 1991-99112	19910430
	JP 04340556	A2	19921126	JP 1991-111943	19910516
	JP 2998280	B2	20000111		
	JP 05019512	A2	19930129	JP 1991-172791	19910712
	JP 2956288	B2	19991004		
	CA 2067524	AA	19921031	CA 1992-2067524	19920429
	US 5284728	A	19940208	US 1992-876085	19920430
PRAI	JP 1991-99112	A	19910430		
	JP 1991-111943	A	19910516		
	JP 1991-172791	A	19910712		

AB The title photoreceptor with high photosensitivity and low residual potential contains in its photosensitive layer ≥ 1 compd(s). selected from arylamine hydrazones and dihydrazones.

IT 146351-24-8 146351-25-9 146351-26-0
 146351-27-1 146351-28-2 146351-30-6
 146351-31-7 146351-32-8

RL: USES (Uses)

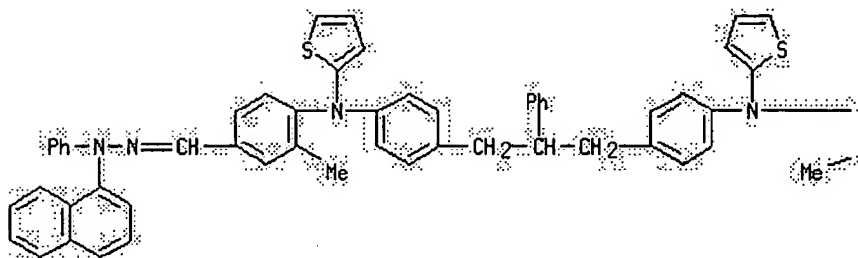
(electrophotog. photoreceptor with photosensitive layer contg., for high-sensitivity and small residual potential)

RN 146351-24-8 CA

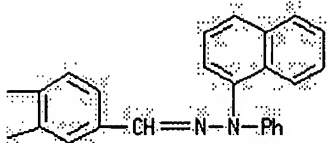
CN Benzaldehyde, 4,4'-[(2-phenyl-1,3-propanediyl)bis[4,1-phenylene(2-thienylimino)]]bis[3-methyl-, bis(1-naphthalenylphenylhydrazone) (9CI)
 (CA INDEX NAME)

STN Columbus

PAGE 1-A

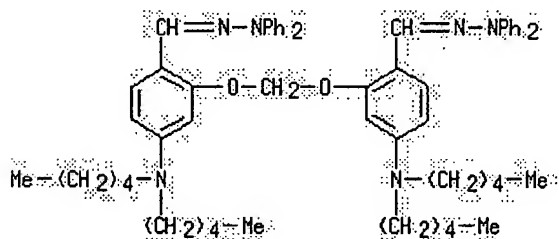


PAGE 1-B



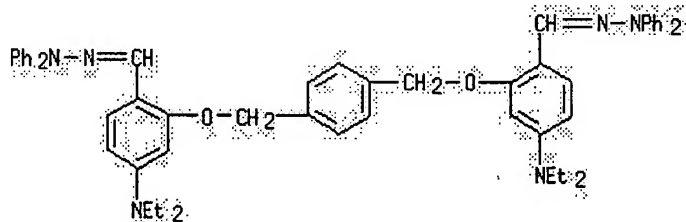
RN 146351-25-9 CA

CN Benzaldehyde, 2,2'-[methylenebis(oxy)]bis[4-(dipentylamino)-, bis(diphenylhydrazone) (9CI) (CA INDEX NAME)



RN 146351-26-0 CA

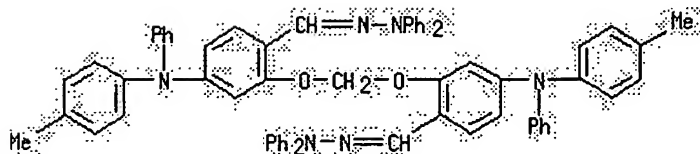
CN Benzaldehyde, 2,2'-[1,4-phenylenebis(methyleneoxy)]bis[4-(diethylamino)-, bis(diphenylhydrazone) (9CI) (CA INDEX NAME)



RN 146351-27-1 CA

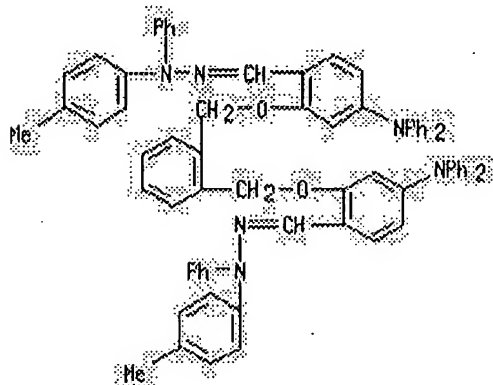
CN Benzaldehyde, 2,2'-[methylenebis(oxy)]bis[4-[(4-methylphenyl)phenylamino]-
, bis(diphenylhydrazone) (9CI) (CA INDEX NAME)

STN Columbus



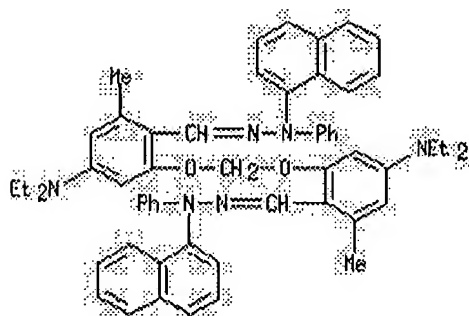
RN 146351-28-2 CA

CN Benzaldehyde, 2,2'-[1,2-phenylenebis(methyleneoxy)]bis[4-(diphenylamino)-, bis[(4-methylphenyl)phenylhydrazone] (9CI) (CA INDEX NAME)



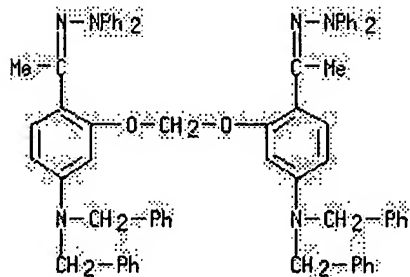
RN 146351-30-6 CA

CN Benzaldehyde, 2,2'-[methylenebis(oxy)]bis[4-(diethylamino)-6-methyl-, bis(1-naphthalenylphenylhydrazone) (9CI) (CA INDEX NAME)



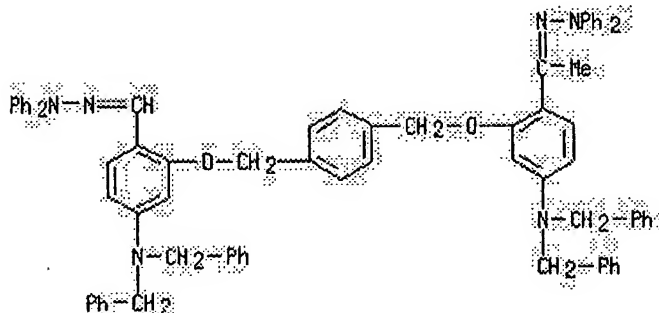
RN 146351-31-7 CA

CN Ethanone, 1,1'-[methylenebis[oxy[4-[bis(phenylmethyl)amino]-2,1-phenylene]]]bis-, bis(diphenylhydrazone) (9CI) (CA INDEX NAME)



STN Columbus

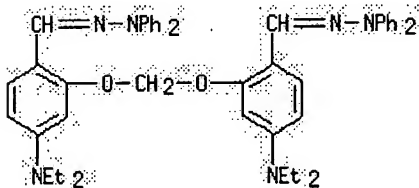
RN 146351-32-8 CA
 CN Benzaldehyde, 4-[bis(phenylmethyl)amino]-2-[[4-[[5-bis(phenylmethyl)amino]-2-[1-(diphenylhydrazono)ethyl]phenoxy]methyl]phenyl]methoxy]-, diphenylhydrazone (9CI) (CA INDEX NAME)



IT 146351-06-6P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and application of, in electrophotog. photoreceptor photosensitive layer)

RN 146351-06-6 CA
 CN Benzaldehyde, 2,2'-[methylenebis(oxy)]bis[4-(diethylamino)-, bis(diphenylhydrazone) (9CI) (CA INDEX NAME)



L26 ANSWER 4 OF 10 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 109:160521 CA
 TI Electrophotographic photoreceptor using phthalocyanine dye and bishydrazone compound in the photoconductor layer
 IN Horie, Seiji; Makino, Naonori; Sato, Hideo
 PA Fuji Photo Film Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 13 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 63048552	A2	19880301	JP 1986-191774	19860818
	US 4814245	A	19890321	US 1987-86449	19870818
PRAI	JP 1986-191774	A	19860818		

AB The charge-generating layer contains a phthalocyanine dye (e.g., ϵ -type Cu phthalocyanine or $AlCl_3$ -phthalocyanine complex), and the charge-transporting layer contains ≥ 1 bis-hydrazone compds. (I) and (II) ($R_1, R_2 = C_1-12$ alkyl, C7-20 aralkyl, monovalent single or $\geq 2-4$ -ring condensed arom. hydrocarbon residue; R_1 and R_2 may form heterocycle; $R_3 = H, C_1-12$ alkyl, C7-20 aralkyl, aryl; $R_4, R_7 = C_1-12$ alkyl, C7-20 aralkyl, aryl, halo, alkoxy, aryloxy; $R_5, R_6, R_8 = C_1-12$

STN Columbus

alkyl, C7-20 aralkyl, aryl; R5 and R6 may bond together to form an N-heterocycle; X = (III); 1, n = 0, 1-6; m = 0, 1; Y = O, S, Se, imino, CH2; and Z = moiety necessary to form benzene and naphthalene ring). This electrophotog. photoreceptor provides high sensitivity and stability.

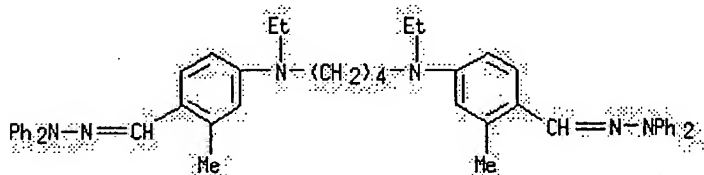
IT 101158-38-7 101158-43-4 101158-47-8

RL: USES (Uses)

(charge-transporting layer contg., for electrophotog. photoreceptor)

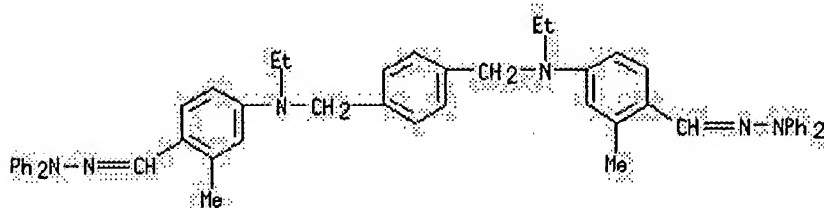
RN 101158-38-7 CA

CN Benzaldehyde, 4,4'-[1,4-butanediylbis(ethylimino)]bis[2-methyl-, bis(diphenylhydrazone) (9CI) (CA INDEX NAME)



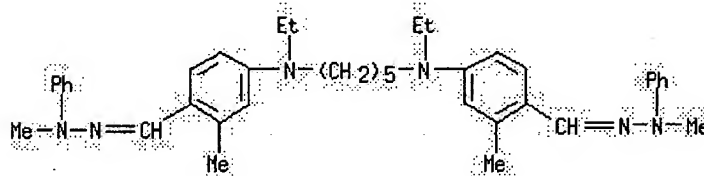
RN 101158-43-4 CA

CN Benzaldehyde, 4,4'-[1,4-phenylenebis[methylene(ethylimino)]]bis[2-methyl-, bis(diphenylhydrazone) (9CI) (CA INDEX NAME)



RN 101158-47-8 CA

CN Benzaldehyde, 4,4'-[1,5-pentanediybis(ethylimino)]bis[2-methyl-, bis(methylphenylhydrazone) (9CI) (CA INDEX NAME)



L26 ANSWER 5 OF 10 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 106:186396 CA

TI Electrophotographic photoreceptor

IN Ehashi, Shigeyuki; Suda, Yasumasa; Hikosaka, Michiji

PA Toyo Ink Mfg. Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 61189556	A2	19860823	JP 1985-29358	19850219
PRAI	JP 1985-29358		19850219		

STN Columbus

AB An electrophotog. photoreceptor has a photosensitive layer contg. ≥ 1 compd. having the general formula $R[R_2NN:CH(CH:CH)mR_1]_n$ [R = a residue having a N-contg. 6-membered heterocyclic ring selected from pyrimidine, pyridazine, pyrazine, quinoline, phthalazine, quinoxaline, naphthyridine, quinazoline, pteridine, perimidine, phenanthridine, phenanthroline, phenoxazine, and phenothiazine groups; R₁ = an arom. residue; R₂ = (un)substituted alkyl, aralkyl, aryl; m = 0, 1; n = integer ≤ 5]. The photoreceptor has high photosensitivity and excellent durability and environmental stability. Thus, a mixt. contg. a compn. obtained by treating Cu phthalocyanine (40 parts) with Cu tetranitrophthalocyanine (0.5 part) in concd. H₂SO₄ (500 parts), I, Takelac A-702 (an acrylpolyol), and Epon 1007 in MEK-Cellosolve was kneaded for 48 h to give a photoconductive compn., which was coated on an Al-laminated polyester film and dried at 100°. The obtained photoreceptor, which was charged to 610 V, showed a dark decay of 16%, had a photosensitivity (lx-s for half decay of voltage) of 4.1, and produced clear copies with good gradation even after 10,000 consecutive copying cycles.

IT 107998-56-1 107998-57-2 107998-58-3

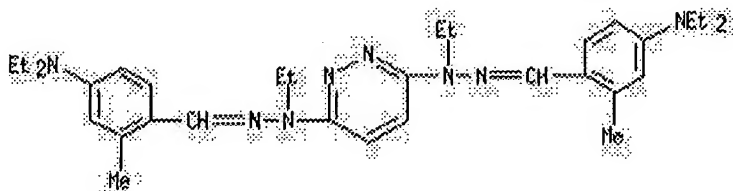
107998-63-0

RL: USES (Uses)

(photoconductive compns. contg. copper phthalocyanine pigments and, for electrophotog. photoreceptors)

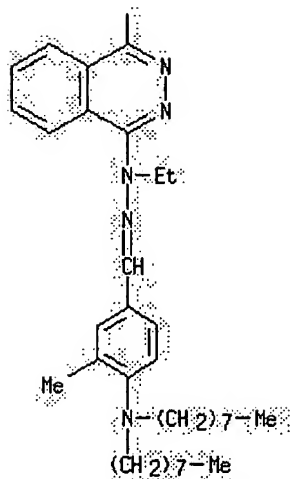
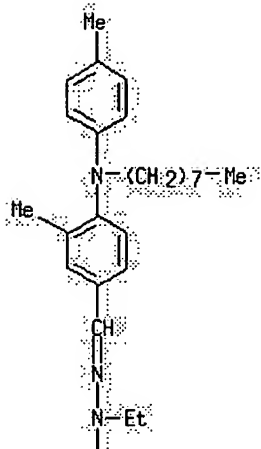
RN 107998-56-1 CA

CN Benzaldehyde, 4-(diethylamino)-2-methyl-, 3,6-pyridazinediylbis(ethylhydrazone) (9CI) (CA INDEX NAME)



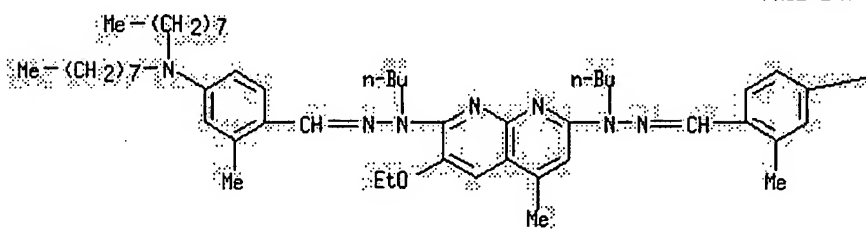
RN 107998-57-2 CA

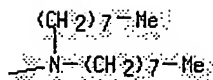
CN Benzaldehyde, 4-(diethylamino)-3-methyl-, ethyl[4-[ethyl[[3-methyl-4-[(4-methylphenyl)octylamino]phenyl]methylene]hydrazino]-1-phthalazinyl]hydrazone (9CI) (CA INDEX NAME)



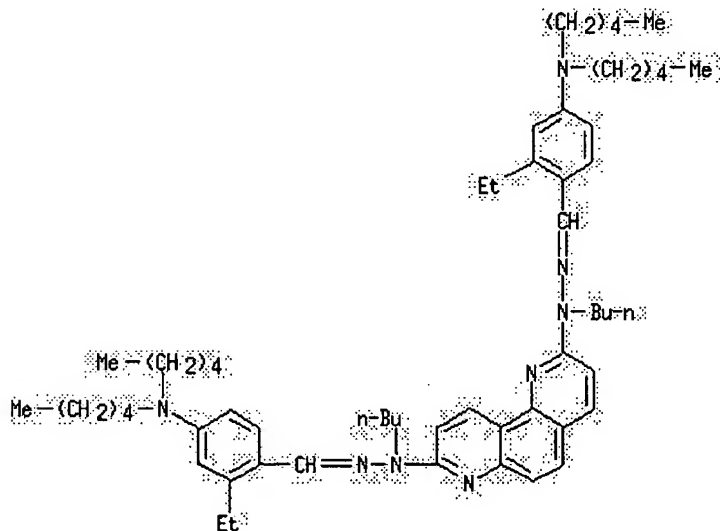
RN 107998-58-3 CA

CN Benzaldehyde, 4-(dioctylamino)-2-methyl-, (3-ethoxy-5-methyl-1,8-naphthyridine-2,7-diyl)bis(butylhydrazone) (9CI) (CA INDEX NAME)





RN 107998-63-0 CA
 CN Benzaldehyde, 4-(dipentylamino)-2-ethyl-, 1,7-phenanthroline-2,8-diylbis(butylhydrazone) (9CI) (CA INDEX NAME)



L26 ANSWER 6 OF 10 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 104:177654 CA
 TI Electrophotographic photoreceptors
 IN Horie, Seiji; Watarai, Osamu; Makino, Naonori; Sato, Hideo
 PA Fuji Photo Film Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 16 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 60196767	A2	19851005	JP 1984-53183	19840319
PRAI	JP 1984-53183		19840319		

AB In an electrophotog. photoconductor contg. a charge-generating layer and a charge-transport layer, the charge-generating layer contains ≥ 1 of the hydrazone compds. of the formula I [R, R1 = C1-12 alkyl, C7-20 aralkyl, mono-cyclic or di-, tri- or tetracyclic condensed arom. hydrocarbon residue, or R and R1 may be combined to form a heterocyclic ring; R2 = H, C1-12 alkyl, C7-20 aralkyl, aryl; R3, R6 = H, C1-12 alkyl, C7-20 aralkyl, aryl, halo, alkoxy, aryloxy; R4, R5 = C1-12 alkyl, C7-20 aralkyl, aryl, R4 and R5 may be combined to form a N-contg. heterocyclic ring; Z = III (R3, R6 are same as in I; 1, n = 0-6; m = 0, 1] and/or II (R7 = aryl, heterocyclyl; R2 is same as in I; m = 0, 1; X = O, S, Se, imino, methylene; R8 = aryl, heterocyclyl; A = atoms required to form a condensed ring). The material is highly sensitive and maintains its

STN Columbus

highly charged potential and low residual charge even after large no. of cycles. Thus, a mixt. contg. I (R, R1 = Ph; R2, R3 = H; R4, R5 = Me; R6 = H; Z = CH2), a bisazo compd., and a polyester resin (Vylon 200) was milled and coated on an Al-deposited film to constitute a charge-generating layer. A charge-transport layer was then overcoated from a compn. contg. a hydrazone compd. and a bisphenol A-type polycarbonate. The resultant photoconductor was stable during a copying test.

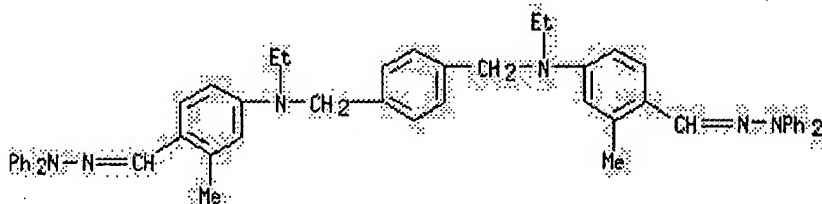
IT 101158-43-4

RL: USES (Uses)

(electrophotog. photoconductor with charge-generating layer contg., for highly charged potential and low residual charge)

RN 101158-43-4 CA

CN Benzaldehyde, 4,4'-[1,4-phenylenebis[methylene(ethylimino)]]bis[2-methyl-, bis(diphenylhydrazone) (9CI) (CA INDEX NAME)



L26 ANSWER 7 OF 10 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 104:139257 CA

TI Electrophotographic photoreceptors

IN Watarai, Osamu; Horie, Seiji

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 21 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 60186847	A2	19850924	JP 1984-42370	19840306
	JP 04005382	B4	19920131		
	US 4594304	A	19860610	US 1985-708461	19850305
PRAI	JP 1984-42370	A	19840306		

AB Electrophotog. photoreceptors contain ≥1 hydrazone compd. selected from I, II, and III [R, R1 = C1-12 alkyl, C7-20 aralkyl, condensed aryl (2-4 rings); RR1 in combination may complete a heterocycle; R2 = H, C1-12 alkyl, C7-20 aralkyl, aryl; R3, R4, R7, R8, R9 = C1-12 alkyl, C7-20 aralkyl, aryl; R3R4 in combination may complete a heterocycle; R5, R6 = H, C1-12 alkyl, C7-20 aralkyl, aryl, halo, alkoxy, aryloxy; A = benzene on naphthalene ring; Z = IV; m = 0, 1; n, p = 0-6; R10, R11 = same as R5 and R6; R10R11 may combine to form condensed ring; Z1 = O, S, Se, imino, methylene]. The hydrazone compds. are esp. useful as electrophotog. charge carrier-transporting agents.

IT 101183-43-1

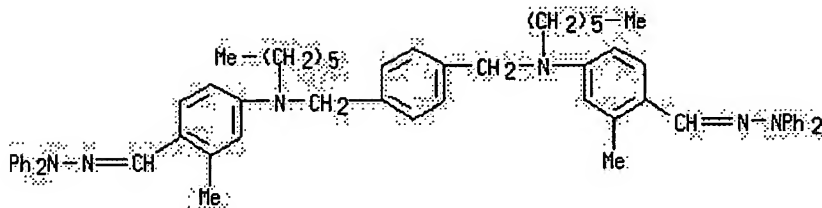
RL: USES (Uses)

(electrophotog. charge carrier-transporting agent)

RN 101183-43-1 CA

CN Benzaldehyde, 4,4'-[1,4-phenylenebis[methylene(hexylimino)]]bis[2-methyl-, bis(diphenylhydrazone) (9CI) (CA INDEX NAME)

STN Columbus



IT 101158-38-7P 101158-39-8P 101158-43-4P

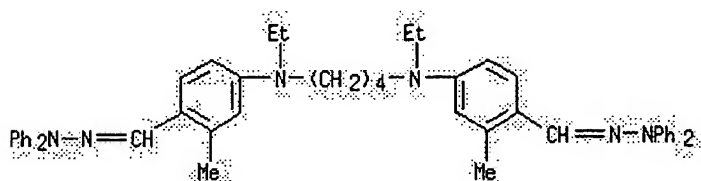
101158-47-8P

RL: PREP (Preparation)

(prepn. of, as electrophotog. charge carrier-transporting agent)

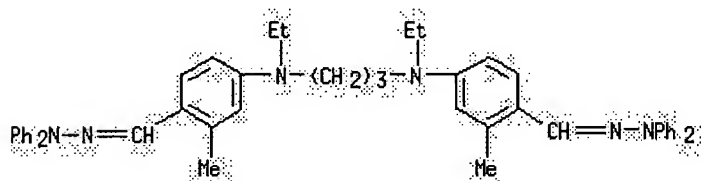
RN 101158-38-7 CA

CN Benzaldehyde, 4,4'-[1,4-butanediylbis(ethylimino)]bis[2-methyl-, bis(diphenylhydrazone) (9CI) (CA INDEX NAME)



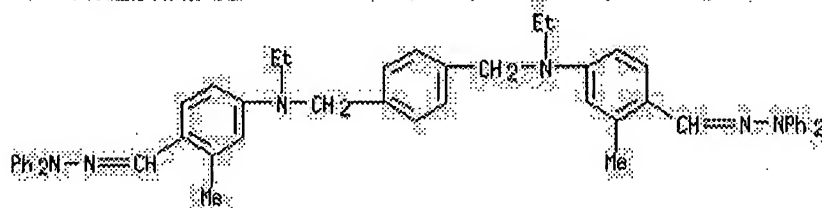
RN 101158-39-8 CA

CN Benzaldehyde, 4,4'-[1,3-propanediylbis(ethylimino)]bis[2-methyl-, bis(diphenylhydrazone) (9CI) (CA INDEX NAME)



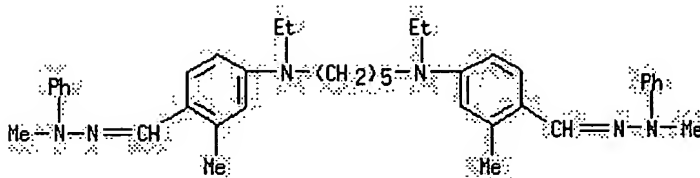
RN 101158-43-4 CA

CN Benzaldehyde, 4,4'-[1,4-phenylenebis[methylene(ethylimino)]]bis[2-methyl-, bis(diphenylhydrazone) (9CI) (CA INDEX NAME)



RN 101158-47-8 CA

CN Benzaldehyde, 4,4'-[1,5-pentanediyylbis(ethylimino)]bis[2-methyl-, bis(methylphenylhydrazone) (9CI) (CA INDEX NAME)



L26 ANSWER 8 OF 10 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 104:79163 CA
 TI Electrophotographic materials
 IN Enomoto, Kazuhiro
 PA Mitsubishi Paper Mills, Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 11 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 60149048	A2	19850806	JP 1984-5320	19840113
	JP 03056629	B4	19910828		
PRAI	JP 1984-5320		19840113		

AB The title materials comprise a charge carrier-transport layer contg. I (R = allyl, propargyl, C1-4 alkyl, benzyl, Ph; R1 = C1-2 alkyl, halo, C1-2 alkoxy, H; R2 = Ph, C1-4 alkyl, H; R3 = Ph, 2-pyridyl; n = 0, 1; m = 1-12). The materials show high photosensitivity and durability. Thus, p-diethylaminobenzaldehyde 2-pyridylhydrazone (prepd. from a 1:1 mol mixt. of p-diethylaminobenzaldehyde and 2-hydrazinopyridine) 6.0 and 1,2-dibromoethane 1.9 g were dissolved in DMF 40 mL, 3N NaOH 8.0 mL added dropwise at room temp., and the mixt. stirred for 6 h to obtain I (R = Et; R1 = H; R2 = H; n = 0; m = 2; R3 = 2-pyridyl; yellow-orange powder; m.p. 158-160°) (II) 5.6 g. An Al-laminated polyester film (polyester film 85 μ thick; Al film 10 μ thick) was coated with a butylamine soln. contg. 1% III, dried to form a charge carrier-generating layer 0.2 μ thick, coated with a dichloroethane soln. contg. a 10% 1:1.2 II-U-Polymer (polyacrylate) mixt., and dried to form a charge carrier-transport layer 12 μ thick. The obtained electrophotog. material showed high sensitivity to visible light and excellent durability.

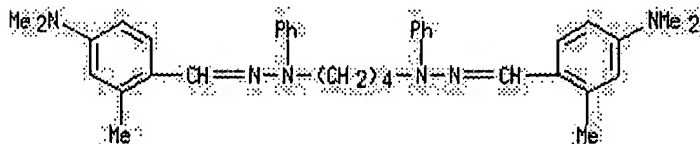
IT 100070-55-1 100070-56-2 100070-61-9
 100070-62-0

RL: USES (Uses)

(charge carrier-transporting agent, for electrophotog. plates)

RN 100070-55-1 CA

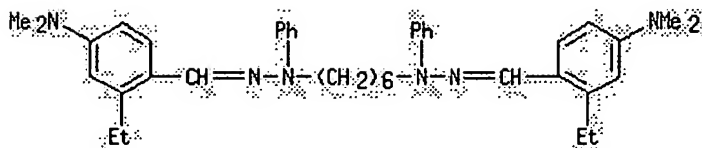
CN Benzaldehyde, 4-(dimethylamino)-, 1,4-butanediylbis(phenylhydrazone) (9CI)
 (CA INDEX NAME)



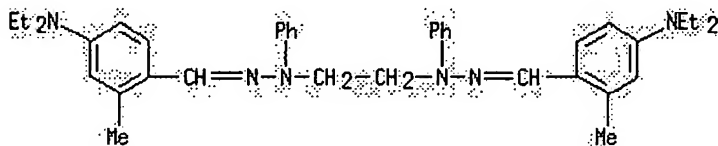
RN 100070-56-2 CA

CN Benzaldehyde, 4-(dimethylamino)-2-ethyl-, 1,6-hexanediylbis(phenylhydrazone) (9CI) (CA INDEX NAME)

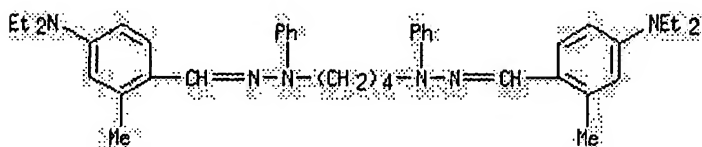
STN Columbus



RN 100070-61-9 CA
 CN Benzaldehyde, 4-(diethylamino)-2-methyl-, 1,2-ethanedibis(phenylhydrazone) (9CI) (CA INDEX NAME)



RN 100070-62-0 CA
 CN Benzaldehyde, 4-(diethylamino)-2-methyl-, 1,4-butanediylbis(phenylhydrazone) (9CI) (CA INDEX NAME)



L26 ANSWER 9 OF 10 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 102:195119 CA
 TI Electrophotographic photoreceptor
 PA Mitsubishi Paper Mills, Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 59223434	A2	19841215	JP 1983-98888	19830602
	JP 03009461	B4	19910208		
PRAI	JP 1983-98888		19830602		

AB An electrophotog. photoreceptor contains sym. substituted compd. having the general formula I (R = H, alkyl, halo; R₁, R₂ = alkyl, aralkyl, aryl that may be substituted; R₃ = alkyl, aralkyl, aryl). The compd. provides good film formation, in combination with suitable binder, and is a charge transport agent suitable for electrophotog. use. Thus, compd. II was prepd. as follows. N,N'-Diphenyl-p-xylenediamine (prepd. from α,α'-dichloro-p-xylene 1 mol and N-methylaniline 2 mol) was formylated by the Vilsmeier reaction at the 2 para-positions. The resultant diformyl compd. 20 and N-phenyl-N-methylhydrazine 41 mmol were made to react by refluxing in MeCN to yield II. An Al-laminated film was coated with poly(vinyl alc.) and overcoated with a n-BuNH₂ soln. of bisazo dye III. Then a mixt. of II 2 g and polyarylate resin (U-100; Unitika Ltd.) 2.5 g in PhCl soln. was coated to obtain the photoreceptor. It was charged to 780 V and retained 94% of the voltage after 10 s. Sensitivity (lx-s for half decay of voltage) was 4.

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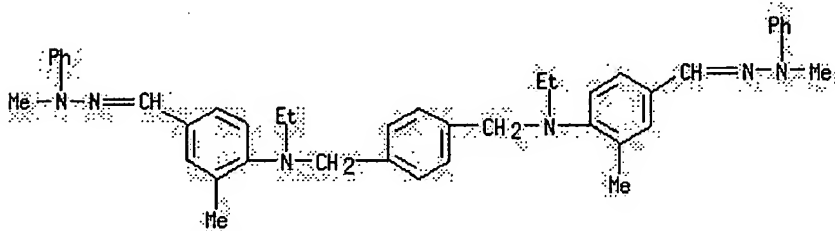
IT 96222-71-8P 96222-72-9P

RL: PREP (Preparation)

(prepn. of, as electrophotog. charge transport agent)

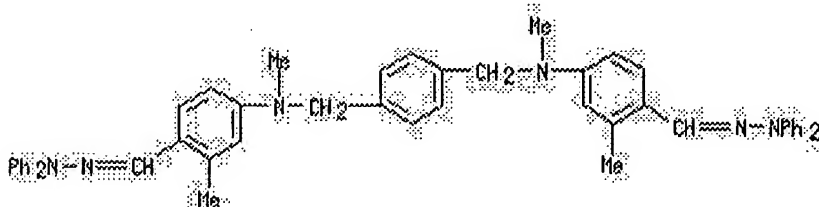
RN 96222-71-8 CA

CN Benzaldehyde, 4,4'-[1,4-phenylenebis(methylene(ethylimino))]]bis[3-methyl-, bis(methylphenylhydrazone) (9CI) (CA INDEX NAME)



RN 96222-72-9 CA

CN Benzaldehyde, 4,4'-[1,4-phenylenebis(methylene(methylimino))]]bis[2-methyl-, bis(diphenylhydrazone) (9CI) (CA INDEX NAME)



L26 ANSWER 10 OF 10 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 97:118211 CA

TI Photosensitive element for electrophotographic purposes

IN Sakai, Kiyoshi; Mabuchi, Minoru; Suzuki, Toshiko; Egarashi, Yuji; Ishikawa, Shozo

PA Canon K. K., Japan; Copyer Co., Ltd.

SO Ger. Offen., 58 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3147118	A1	19820701	DE 1981-3147118	19811127
	DE 3147118	C2	19890420		
	JP 57090634	A2	19820605	JP 1980-166560	19801128
	JP 62055780	B4	19871120		
	JP 58016242	A2	19830129	JP 1981-115483	19810723
	JP 62062345	B4	19871225		
	US 4420548	A	19831213	US 1981-321673	19811116
	GB 2091434	A	19820728	GB 1981-35340	19811124
	GB 2091434	B2	19840912		
PRAI	JP 1980-166560	A	19801128		
	JP 1981-115483	A	19810723		

AB Composite photosensitive elements for electrophotog. are composed of a conductive support, a charge-forming layer, and a charge-transporting layer contg. ≥ 1 hydrazone deriv. of the formula $RR_1C:NNR_2ZNR_3N:CRR_1$ (R,R₁ = H, substituted or unsubstituted aryl, or a substituted or

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unsubstituted heterocycle; R₂,R₃ = substituted or unsubstituted alkyl, aralkyl, aryl, or heterocycle; Z = a divalent org. group) or ≥ 1 ketazine (I; R₄,R₅,R₆,R₇ = substituted or unsubstituted alkyl, aralkyl, or aryl or R₄R₅ or R₆R₇ together can form a cyclic group). Thus, a soln. contg. casein 11.2, 28% aq. NH₃ 1 g and water 222 mL was coated at 1.0 g/m² (dry) on an Al support, then a dispersion contg. the bisazo pigment II 5, poly(vinyl butyral) 2 g, and EtOH 95 mL was coated thereon at 0.2 g/m² (dry) to give a charge-forming layer, and finally a soln. contg. the hydrazone deriv. III 5, bisphenol A polycarbonate 5 g, and CH₂Cl₂ 150 mL was coated on the above charge-forming layer at 10 g/m² (dry) to give a charge-transporting layer. The resulting plate, after conditioning at 20° and 65% relative humidity, was corona charged (-5 kV) and then exposed with a 5 lx source after 10 s in the dark. The original potential, % retained potential after 10 s in the dark, and the exposure needed to reduce the original potential by 1/2 were -480 V, 82%, and 3.6 lx-s, resp.

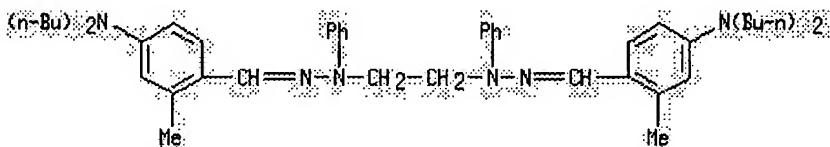
IT 82907-36-6

RL: USES (Uses)

(electrophotog. plates with charge-transporting layer contg.)

RN 82907-36-6 CA

CN Benzaldehyde, 4-(dibutylamino)-2-methyl-, 1,2-ethanediybis(phenylhydrazone) (9CI) (CA INDEX NAME)



COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

52.32

224.60

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

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 alerts (SDIs) affected
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 NEWS 12 DEC 17 CERAB reloaded; updating to resume; current-awareness
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 February 2005
 NEWS 17 JAN 26 CA/CAPLUS - Expanded patent coverage to include the Russian
 Agency for Patents and Trademarks (ROSPATENT)
 NEWS 18 FEB 10 STN Patent Forums to be held in March 2005
 NEWS 19 FEB 16 STN User Update to be held in conjunction with the 229th ACS
 National Meeting on March 13, 2005

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DICTIONARY FILE UPDATES: 21 FEB 2005 HIGHEST RN 835594-12-2

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enter "DISPLAY SAVED/S". To see the names of all BATCH search
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L1 SCR 1996
L2 SCR 2127
L3 STR
L4 34 SEA FILE=REGISTRY SSS FUL L3 AND L1 NOT L2

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FILE COVERS 1971 TO PATENT PUBLICATION DATE: 22 Feb 2005 (20050222/PD)
FILE LAST UPDATED: 22 Feb 2005 (20050222/ED)
HIGHEST GRANTED PATENT NUMBER: US6859937
HIGHEST APPLICATION PUBLICATION NUMBER: US2005039239
CA INDEXING IS CURRENT THROUGH 22 Feb 2005 (20050222/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 22 Feb 2005 (20050222/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Dec 2004
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Dec 2004

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>>> publications, starting in 2001, for the inventions covered in	<<<
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>>> published document but also a list of any subsequent	<<<
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>>> publication date for all the US publications for an invention	<<<

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L5 7 L4

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L5 ANSWER 1 OF 7 USPATFULL on STN

IT 748789-21-1P 748789-22-2P 748789-23-3P

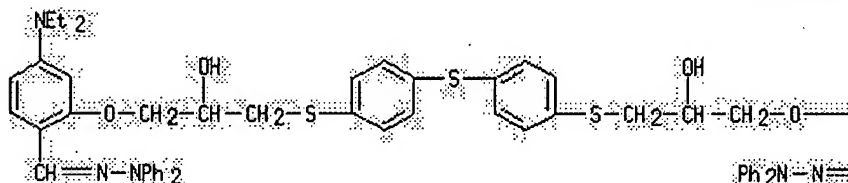
748789-24-4P

(organo photoreceptor with charge transport material having two
hydrazone groups)

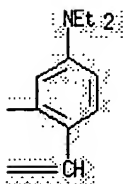
RN 748789-21-1 USPATFULL

CN Benzaldehyde, 2,2'-[thiobis[4,1-phenylenethio(2-hydroxy-3,1-
propanediyl)oxy]]bis[4-(diethylamino)-, bis(diphenylhydrazone) (9CI)
(CA INDEX NAME)

PAGE 1-A



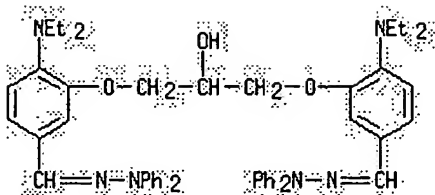
PAGE 1-B



RN 748789-22-2 USPATFULL

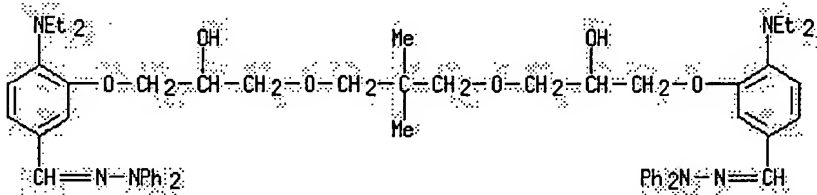
CN Benzaldehyde, 3,3'-[(2-hydroxy-1,3-propanediyl)bis(oxy)]bis[4-
(diethylamino)-, bis(diphenylhydrazone) (9CI) (CA INDEX NAME)

STN Columbus



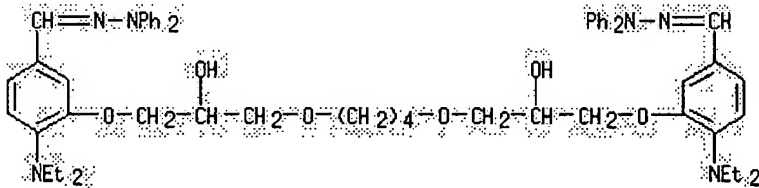
RN 748789-23-3 USPATFULL

CN Benzaldehyde, 3,3'-[(2,2-dimethyl-1,3-propanediyl)bis[oxy(2-hydroxy-3,1-propanediyl)oxy]]bis[4-(diethylamino)-, bis(diphenylhydrazone) (9CI)
(CA INDEX NAME)



RN 748789-24-4 USPATFULL

CN Benzaldehyde, 3,3'-[1,4-butanediylbis[oxy(2-hydroxy-3,1-propanediyl)oxy]]bis[4-(diethylamino)-, bis(diphenylhydrazone) (9CI)
(CA INDEX NAME)



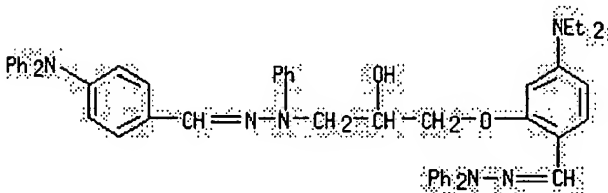
L5 ANSWER 2 OF 7 USPATFULL on STN

IT 688008-07-3P 688008-09-5P 688008-10-8P
688008-11-9P

(prepn. of organophotoreceptors with charge transport materials having two linked hydrazone groups)

RN 688008-07-3 USPATFULL

CN Benzaldehyde, 4-(diethylamino)-2-[3-[[4-(diphenylamino)phenyl]methylene]phenylhydrazino]-2-hydroxypropoxy]-, diphenylhydrazone (9CI) (CA INDEX NAME)

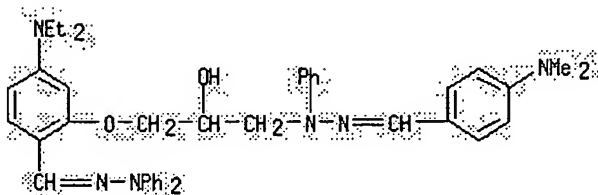


RN 688008-09-5 USPATFULL

CN Benzaldehyde, 4-(diethylamino)-2-[3-[[4-(dimethylamino)phenyl]methylene]p

STN Columbus

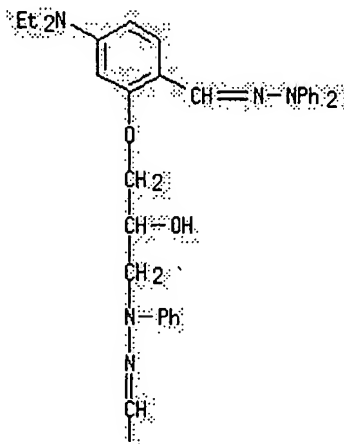
henylhydrazino]-2-hydroxypropoxy]-, diphenylhydrazone (9CI) (CA INDEX NAME)



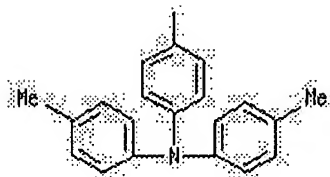
RN 688008-10-8 USPATFULL

CN Benzaldehyde, 2-[3-[[[4-[bis(4-methylphenyl)amino]phenyl]methylene]phenyl]hydrazino]-2-hydroxypropoxy]-4-(diethylamino)-, diphenylhydrazone (9CI)
(CA INDEX NAME)

PAGE 1-A



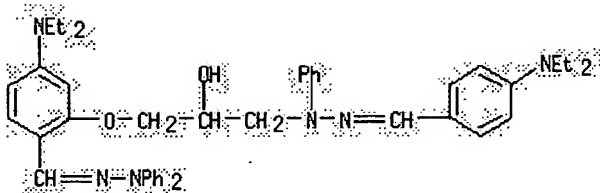
PAGE 2-A



RN 688008-11-9 USPATFULL

CN Benzaldehyde, 4-(diethylamino)-2-[3-[[[4-(diethylaminomethylene)phenyl]methylene]phenyl]hydrazino]-2-hydroxypropoxy]-, diphenylhydrazone (9CI) (CA INDEX NAME)

STN Columbus



L5 ANSWER 3 OF 7 USPATFULL on STN

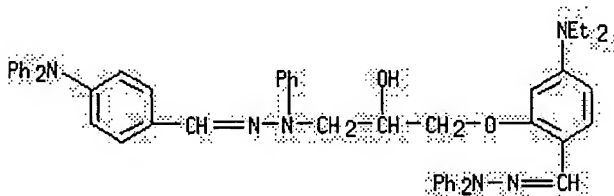
IT 688008-07-3P 688008-09-5P 688008-10-8P

688008-11-9P

(electrophotog. organo-photoreceptor with charge transport compd. with hydrazone groups)

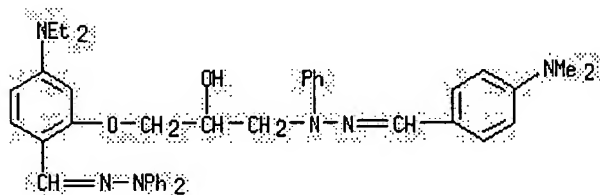
RN 688008-07-3 USPATFULL

CN Benzaldehyde, 4-(diethylamino)-2-[3-[[[4-(diphenylamino)phenyl]methylene]phenylhydrazino]-2-hydroxypropoxy]-, diphenylhydrazone (9CI) (CA INDEX NAME)



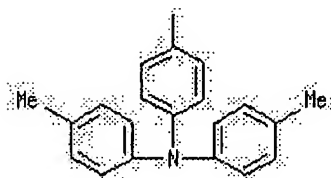
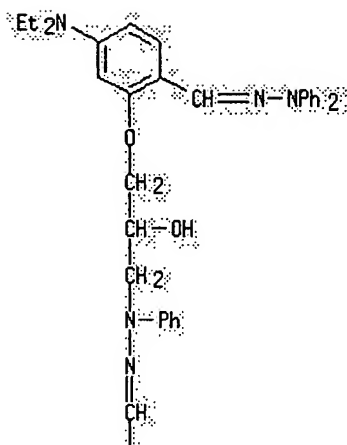
RN 688008-09-5 USPATFULL

CN Benzaldehyde, 4-(diethylamino)-2-[3-[[[4-(dimethylamino)phenyl]methylene]phenylhydrazino]-2-hydroxypropoxy]-, diphenylhydrazone (9CI) (CA INDEX NAME)



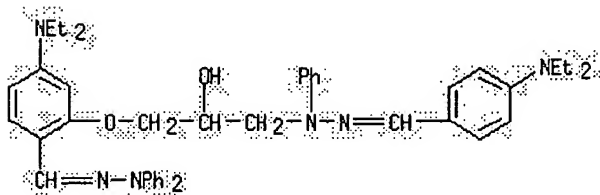
RN 688008-10-8 USPATFULL

CN Benzaldehyde, 2-[3-[[[4-[bis(4-methylphenyl)amino]phenyl]methylene]phenylhydrazino]-2-hydroxypropoxy]-4-(diethylamino)-, diphenylhydrazone (9CI) (CA INDEX NAME)



RN 688008-11-9 USPATFULL

CN Benzaldehyde, 4-(diethylamino)-2-[3-[[[4-(diethylamino)phenyl]methylene]phenylhydrazino]-2-hydroxypropoxy]-, diphenylhydrazone (9CI) (CA INDEX NAME)



L5 ANSWER 4 OF 7 USPATFULL on STN

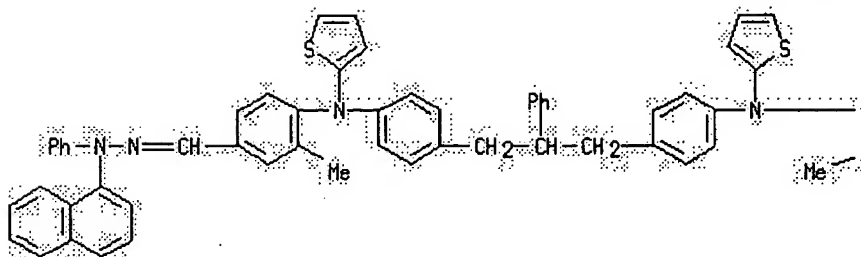
IT 146351-24-8 146351-25-9 146351-26-0
146351-27-1 146351-28-2 146351-30-6
146351-31-7 146351-32-8

(electrophotog. photoreceptor with photosensitive layer contg., for high-sensitivity and small residual potential)

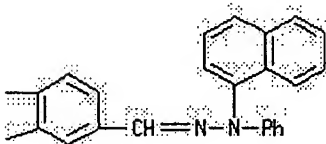
RN 146351-24-8 USPATFULL

CN Benzaldehyde, 4,4'-[(2-phenyl-1,3-propanediyl)bis[4,1-phenylene(2-thienylimino)]]bis[3-methyl-, bis(1-naphthalenylphenylhydrazone) (9CI) (CA INDEX NAME)

PAGE 1-A

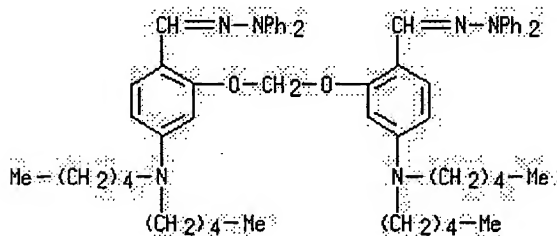


PAGE 1-B



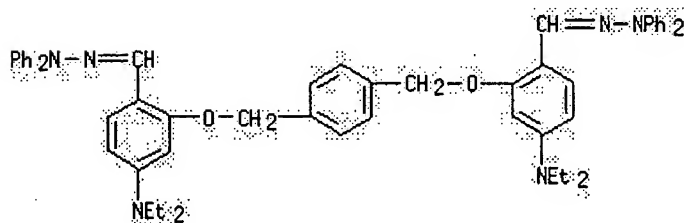
RN 146351-25-9 USPATFULL

CN Benzaldehyde, 2,2'-[methylenebis(oxy)]bis[4-(dipentylamino)-, bis(diphenylhydrazone) (9CI) (CA INDEX NAME)



RN 146351-26-0 USPATFULL

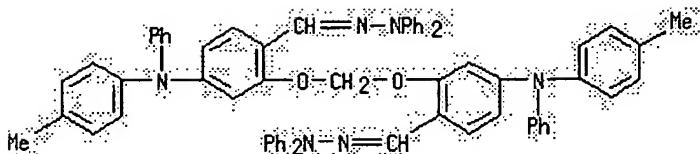
CN Benzaldehyde, 2,2'-[1,4-phenylenebis(methyleneoxy)]bis[4-(diethylamino)-, bis(diphenylhydrazone) (9CI) (CA INDEX NAME)



RN 146351-27-1 USPATFULL

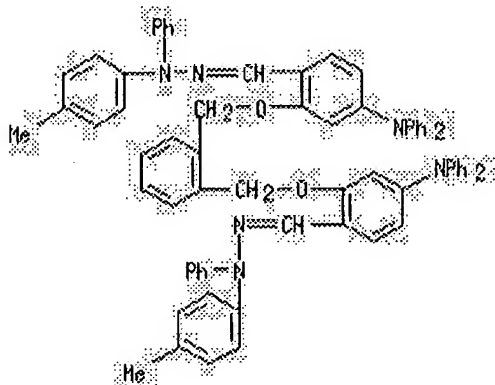
CN Benzaldehyde, 2,2'-[methylenebis(oxy)]bis[4-[(4-methylphenyl)phenylamino]-, bis(diphenylhydrazone) (9CI) (CA INDEX NAME)

STN Columbus



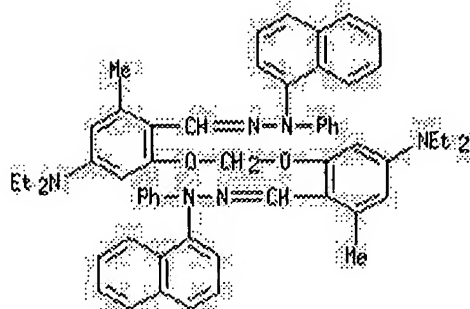
RN 146351-28-2 USPATFULL

CN Benzaldehyde, 2,2'-[1,2-phenylenebis(methyleneoxy)]bis[4-(diphenylamino)-, bis[(4-methylphenyl)phenylhydrazone] (9CI) (CA INDEX NAME)



RN 146351-30-6 USPATFULL

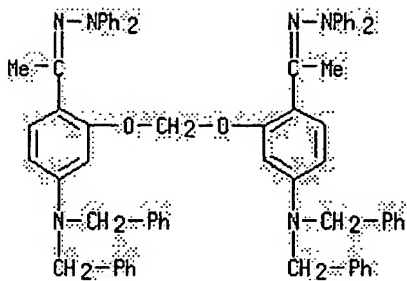
CN Benzaldehyde, 2,2'-[methylenebis(oxy)]bis[4-(diethylamino)-6-methyl-, bis(1-naphthalenylphenylhydrazone) (9CI) (CA INDEX NAME)



RN 146351-31-7 USPATFULL

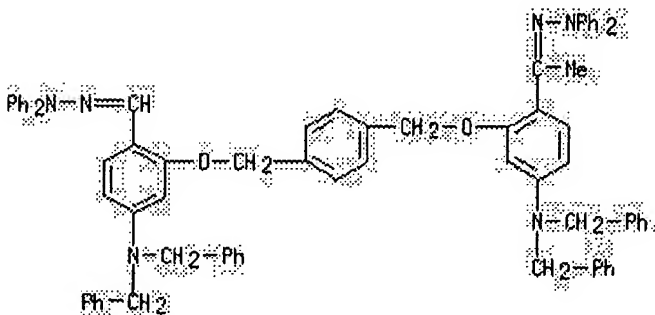
CN Ethanone, 1,1'-[methylenebis[oxy[4-[bis(phenylmethyl)amino]-2,1-phenylene]]]bis-, bis(diphenylhydrazone) (9CI) (CA INDEX NAME)

STN Columbus



RN 146351-32-8 USPATFULL

CN Benzaldehyde, 4-[bis(phenylmethyl)amino]-2-[[4-[[5-bis(phenylmethyl)amino]-2-[1-(diphenylhydrazono)ethyl]phenoxy]methyl]phenyl]methoxy]-, diphenylhydrazone (9CI) (CA INDEX NAME)

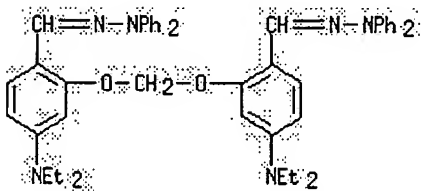


IT 146351-06-6P

(prepn. and application of, in electrophotog. photoreceptor photosensitive layer)

RN 146351-06-6 USPATFULL

CN Benzaldehyde, 2,2'-[methylenebis(oxy)]bis[4-(diethylamino)-, bis(diphenylhydrazone) (9CI) (CA INDEX NAME)



L5 ANSWER 5 OF 7 USPATFULL on STN

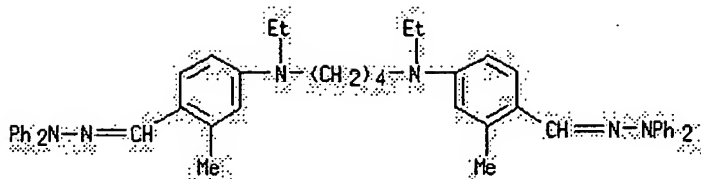
IT 101158-38-7 101158-43-4 101158-47-8

(charge-transporting layer contg., for electrophotog. photoreceptor)

RN 101158-38-7 USPATFULL

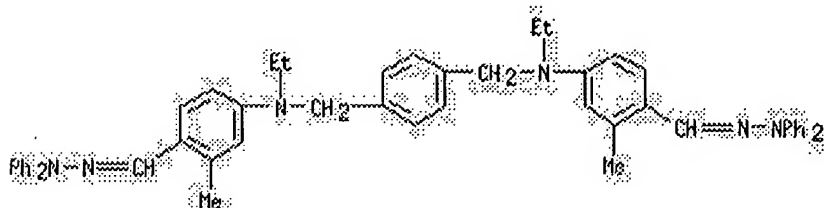
CN Benzaldehyde, 4,4'-[1,4-butanediylbis(ethylimino)]bis[2-methyl-, bis(diphenylhydrazone) (9CI) (CA INDEX NAME)

STN Columbus



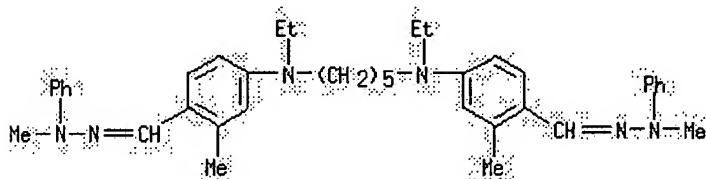
RN 101158-43-4 USPATFULL

CN Benzaldehyde, 4,4'-[1,4-phenylenebis(methylene(ethylimino))]bis[2-methyl-, bis(diphenylhydrazone) (9CI) (CA INDEX NAME)



RN 101158-47-8 USPATFULL

CN Benzaldehyde, 4,4'-[1,5-pentanedibis(methylene(ethylimino))]bis[2-methyl-, bis(methylphenylhydrazone) (9CI) (CA INDEX NAME)



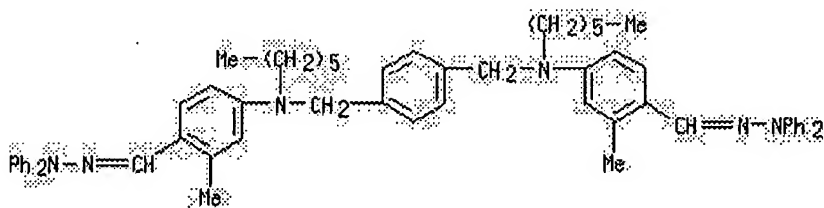
L5 ANSWER 6 OF 7 USPATFULL on STN

IT 101183-43-1

(electrophotog. charge carrier-transporting agent)

RN 101183-43-1 USPATFULL

CN Benzaldehyde, 4,4'-[1,4-phenylenebis(methylene(hexylimino))]bis[2-methyl-, bis(diphenylhydrazone) (9CI) (CA INDEX NAME)



IT 101158-38-7P 101158-39-8P 101158-43-4P

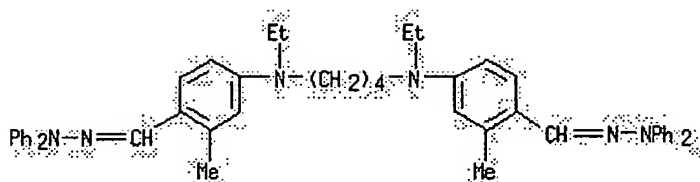
101158-47-8P

(prepn. of, as electrophotog. charge carrier-transporting agent)

RN 101158-38-7 USPATFULL

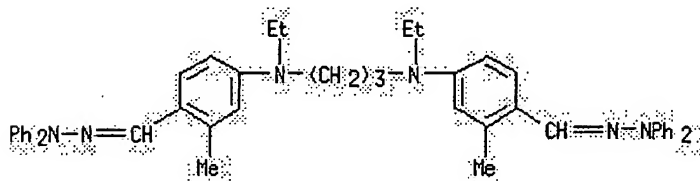
CN Benzaldehyde, 4,4'-[1,4-butanediylbis(methylene(ethylimino))]bis[2-methyl-, bis(diphenylhydrazone) (9CI) (CA INDEX NAME)

STN Columbus



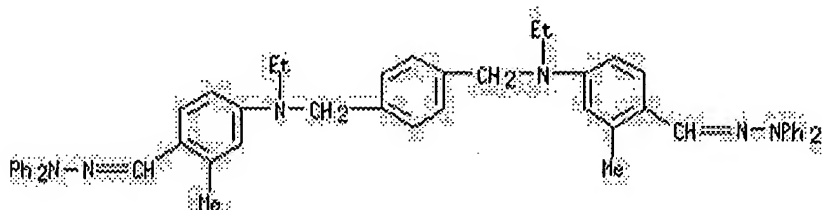
RN 101158-39-8 USPATFULL

CN Benzaldehyde, 4,4'-[1,3-propanediylbis(ethylimino)]bis[2-methyl-, bis(diphenylhydrazone) (9CI) (CA INDEX NAME)



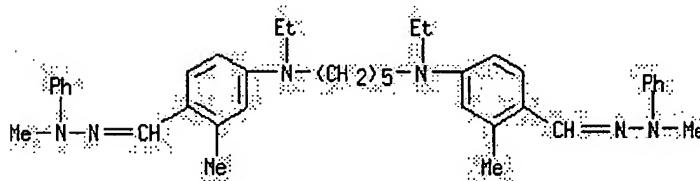
RN 101158-43-4 USPATFULL

CN Benzaldehyde, 4,4'-[1,4-phenylenebis(methylene(ethylimino))]]bis[2-methyl-, bis(diphenylhydrazone) (9CI) (CA INDEX NAME)



RN 101158-47-8 USPATFULL

CN Benzaldehyde, 4,4'-[1,5-pentanediyldis(ethylimino)]bis[2-methyl-, bis(methylphenylhydrazone) (9CI) (CA INDEX NAME)



L5 ANSWER 7 OF 7 USPATFULL on STN

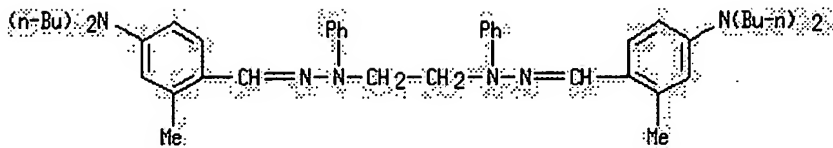
IT 82907-36-6

(electrophotog. plates with charge-transporting layer contg.)

RN 82907-36-6 USPATFULL

CN Benzaldehyde, 4-(dibutylamino)-2-methyl-, 1,2-ethanediylbis(phenylhydrazone) (9CI) (CA INDEX NAME)

STN Columbus



=> d pi 1-3

L5 ANSWER 1 OF 7 USPATFULL on STN
PI US 2004170910 A1 20040902

L5 ANSWER 2 OF 7 USPATFULL on STN
PI US 2004152002 A1 20040805

L5 ANSWER 3 OF 7 USPATFULL on STN
PI US 2004106054 A1 20040603

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